

## AMENDMENTS TO THE CLAIMS

1.(Currently Amended)      A method of ~~mapping dimension-based accounting data to allow segment-based reporting, the method comprising:~~

accessing a dimension-based accounting database that defines multiple dimensions;

selecting a set plurality of dimensions from the dimension-based accounting data database for a segment-based account code structure;

defining an order for the dimensions in the set plurality of selected dimensions;

~~to define~~ defining the segment-based account code structure based on the order;

and

a processor constructing a plurality of account codes based on using the segment-based account code structure and the dimension-based accounting databasedata to construct account codes by:

searching a table in the dimension-based accounting database comprising a separate dimension column for each dimension in the plurality of selected dimensions and at least one balance column for rows in the table that have a value in the at least one balance column;

for each row that has a value in the at least one balance column, retrieving a dimension value from a respective dimension column in the table for each dimension in the plurality of selected dimensions;

for each row that has a value in the at least one balance column, placing the values from the dimension columns in the order defined by the segment-based account code structure to construct an account code,

and

storing the account codes.

2. The method of claim 1 wherein selecting a ~~set~~plurality of dimensions comprises validating values associated with the dimensions using rules associated with segment-based reporting.

3. The method of claim 2 wherein validating a value comprises determining if whether the value includes a character other than a number that is not valid in an account code.

4. The method of claim 2 wherein validating a value comprises determining if whether the length of the value exceeds a length set for the value.

5. The method of claim 2 wherein validating a value comprises determining if whether the value is null.

6. The method of claim 2 further comprising determining that a value violates a rule associated with segment-based reporting and providing an error message if a value violates a rule associated with segment-based reporting.

7. The method of claim 1 wherein defining the account code structure comprises generating table entries that link segments of the account code structure to dimension headings in tables in the dimension-based accounting database that contain the dimension-based data.

8. (Canceled)

9. (Canceled)

10- 21 (Canceled)

22. (New) The method of claim 2 wherein validating values associated with dimensions comprises:

- selecting a company;
- searching a database table having a column containing identifiers for a plurality of companies and locating rows that contain an identifier for the selected company;
- for each located row, retrieving a value for a dimension; and
- validating the retrieved values.

23.(New) The method of claim 22 wherein validating the retrieved values comprises:

- searching a data dimension length table for a row containing the identifier for the selected company and the dimension for the retrieved value;
- retrieving a maximum length from the row containing the identifier for the selected company and the dimension for the retrieved value;
- determining whether the number of characters in the retrieved value exceeds the retrieved maximum length.

24. (New) A computer storage medium having stored thereon computer-executable instructions for performing steps comprising:

- constructing account codes based on a segment-based account code structure and a dimension-based database by:
  - searching a table in the dimension-based database comprising a column for each dimension in a plurality of dimensions and at least one balance column for rows in the table that have a value in the at least one balance column;
  - for each row that has a value in the at least one balance column, retrieving a dimension value from a dimension column in the table for each dimension in the plurality of dimensions;

placing the values from the dimension columns in an order defined by the  
segment-based account code structure to construct an account code,  
and  
storing the account codes.